

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number  
**WO 2005/082277 A1**

- (51) International Patent Classification<sup>7</sup>: **A61F 2/02**
- (21) International Application Number:  
PCT/US2004/040270
- (22) International Filing Date: 1 December 2004 (01.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/546,091 18 February 2004 (18.02.2004) US
- (71) Applicant (for all designated States except US): **STANFORD UNIVERSITY** [US/US]; Office of Technology Licensing, 1705 El Camino Real, Palo Alto, CA 94306-1106 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DIMITRIOS Pantelidis** [GR/US]; 1010 Noel Drive, No. 7, Menlo Park CA 94025 (US). **BRAYMAN, John, C.** [US/US]; 225 Santa Teresa Lane, Stanford CA 94305 (US).
- (74) Agent: **WARWICK BELL, Adam**; Bell & Associates, 416 Funston Avenue, Suite 100, San Francisco CA 94118 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DRUG DELIVERY SYSTEMS USING MESOPOROUS OXIDE FILMS

(57) Abstract: Sustained-release drug-delivery devices employing a mesoporous oxide coating that functions as a drug reservoir, and the use of mesoporous oxide coatings for improved adhesion of organic polymers to inorganic substrates.

WO 2005/082277 A1